INSTRUCTIONS FOR USE

THERMOPLASTIC BOLUS MATERIAL
Thermoplastic Bolus Sheets and Thermoplastic Bolus Pellets

1) GENERAL PRODUCT INFORMATION
The products referred to in these instructions are medical devices, used as bolus material in radiation therapy.

2) PRODUCT DESCRIPTION
This Thermoplastic Bolus Material is a specially formulated rigid low melting temperature thermoplastic for bolus applications in radiation oncology applications. It is easy to mold and use and can be stuck on the thermoplastic mask of the patient. It can also be stuck onto itself after heating to make thicker bolus sheets if needed.

3) INSTRUCTIONS FOR USE
   a) The workplace must be well-ventilated.
   b) A water bath is filled with water and set at the right temperature of 65°C (149°F). A small amount of liquid soap can be added in order to soften the water.
   c) Before sticking this bolus material on a thermoplastic mask, the surface of the mask should be lightly sanded. This sanding will remove the coating layer and will make sure that the bolus material adheres to the mask.

4) METHOD OF ACTIVATION AND APPLICATION
   a) Place the Thermoplastic Bolus Material in a water bath at a temperature of 65°C (149°F). This is the ideal softening temperature. Use a nylon mesh in the water bath to prevent the bolus material from sticking to the metal parts of the water bath.

   **When using a heat gun, do not exceed the temperature of 250°C (482°F) to avoid breakdown of the material. Never use an open flame to activate this material.**

   b) The ideal heating time for the material in sheet form is 5 minutes. The material will become transparent on heating. Make sure that the bolus material has become completely transparent before using it. The material in pellet form will become transparent faster than the sheets. When taking the material out of the water, work swiftly. The time between taking it out of the water bath and placing it on the patient’s mask should not exceed 15 seconds.

   c) Mold the material into the desired shape and thickness. Continue molding until the material has regained its original color and becomes firm. This takes from 1 to 2 minutes, depending on the temperature in the room.

5) STORAGE
Always store the Thermoplastic Bolus sheets and pellets in a dry place at a temperature of min. 10°C (50°F) and max. 40°C (122°F). The sheets and pellets should be stored in their original packaging.

6) MAINTENANCE AND WASTE MANAGEMENT
   a) These products can be cleaned and disinfected by means of soapy water or an isopropanol based disinfectant, applied with a soft cloth. If unsure about the cleaning fluid, do not use. Never use aerosol sprays, corrosive cleaning agents, solvents or abrasive detergents.

   b) Contact your distributor if there are any questions or concerns. The products can be disposed of with household waste. This thermoplastic material is biodegradable.